

SPECIFICATION AMENDMENTS

Replace the paragraph beginning at page 6, line 6 with:

Accordingly, the dielectric bars constitute a photonic crystal structure, and the first and second high-frequency reflecting walls reflect all of high-frequency waves lying in a predetermined frequency band, the high-frequency waves having electric field components orthogonal to the axial directions of the dielectric bars, whereby a high-frequency waveguide is produced and has reduced radiation loss and low transmission loss. A high-frequency waveguide low in transmission loss and inexpensive can be manufactured with a simple structure.

Replace the paragraph beginning at page 8, line 15 with:

In all figures, ~~the~~ substantially the same elements are given the same reference numbers. To avoid unnecessary repetition, each element of each structure is not described in detail for each figure.

Replace the paragraph beginning at page 10, line 23 with:

Referring to Fig. 2, ~~sizes are indicated by~~ the distances indicated along the lines ending in arrows indicate respective lattice intervals.

Delete the paragraph beginning at page 13, line 8.

Replace the paragraph beginning at page 16, line 22 with:

The first dielectric wall 12 and second dielectric wall 14 provided on both sides of a high-frequency propagation area 16 prohibit the propagation of high-frequency waves lying within a frequency band corresponding to a photonic band crystal structure. Namely, plane electromagnetic waves having electric field components orthogonal to the axial directions of the alumina cylindrical columns 18 are all reflected with respect to the high-frequency waves in the frequency band corresponding to the photonic band crystal

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structure. There, the high-frequency electromagnetic waves propagate along the high-frequency propagation area 16.

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AMENDMENTS TO THE DRAWINGS

The Examiner is requested to approve the changes to Figures 4, 5, and 7-10, as shown on the attached replacement sheets of drawings correcting errors indicating the direction of view of sections and hatching lines.

Attachment: Replacement Sheet(s)